DOT HAZARDOUS MATERIALS WARNING PLACARDS



GENERAL GUIDELINES FOR PLACARDING

Guidelines for the placarding of each end and each side of a motor vehicle, rail car, freight container or portable tank containing hazardous materials.

NOTE: These guidelines do not include all of the DOT hazardous materials placarding requirements. For details, refer to Title 49, Code of Federal Regulations, Part 172, Subpart F.

U.S. DEPARTMENT OF TRANSPORTATION
MATERIALS TRANSPORTATION BUREAU
OFFICE OF HAZARDOUS MATERIALS OPERATIONS
Washington, D.C. 20590

CHART 5 ***1977 EDITION***

DOT HAZARDOUS MATER

PLACARDING ANY QUANTITY—

MOTOR VEHICLES, FREIGHT CONTAINERS AND RAIL CARS

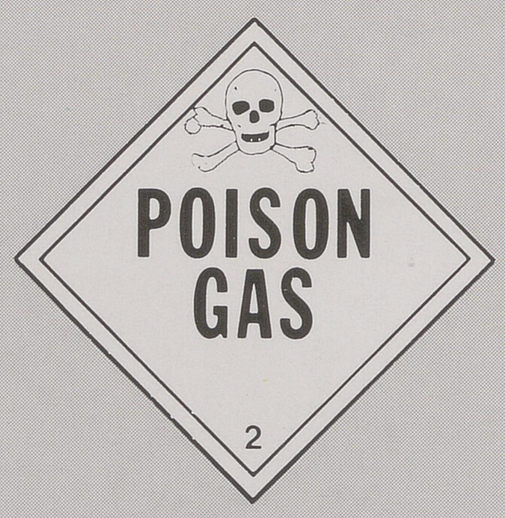
Placard motor vehicles, freight containers, and rail cars containing "any quantity" of hazardous materials listed in TABLE 1.

TABLE 1

HAZARDOUS MATERIAL CLASSED OR DESCRIBED AS	PLACARDS
Class A explosives	EXPLOSIVES A.
Class B explosives	EXPLOSIVES B.
Poison A	POISON GAS.
Flammable solid (DANGEROUS WHEN WET label only)	FLAMMABLE SOLID W.
Radioactive material	RADIOACTIVE.
Radioactive material:	
Uranium hexafluoride, fissile (containing more than 0.7 pct U^{235})	RADIOACTIVE AND CORROSIVE.
Uranium hexafluoride, low specific activity (containing 0.7 pct. or less U^{235})	RADIOACTIVE AND CORROSIVE.









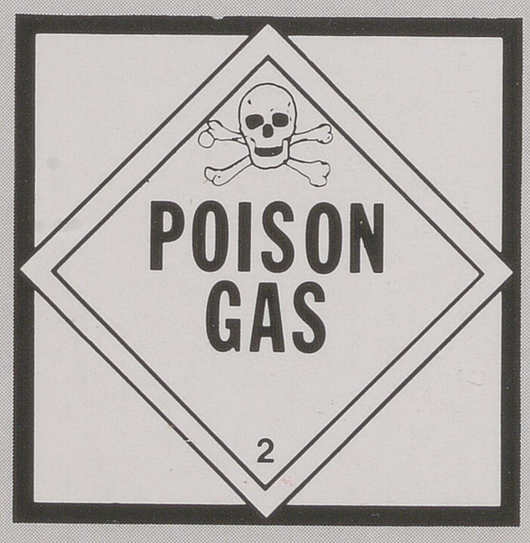


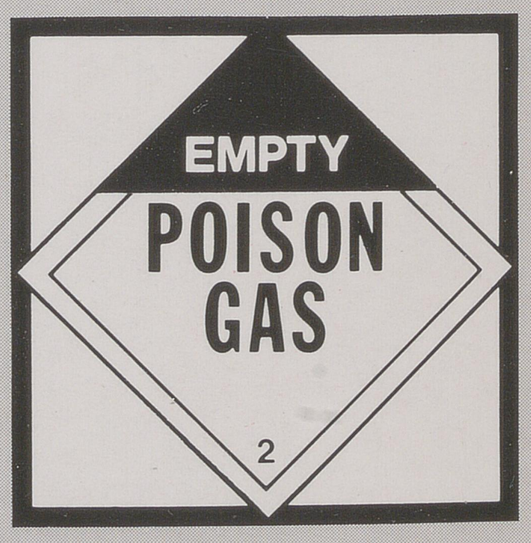
YELLOW III labeled packagings only.

For Uranium Hexafluoride, see Sec. 172.504(a) and TABLE 1.

RAIL PLACARDS







SQUARE BACKGROUND FOR RAIL SHIPMENTS—Each "EXPLOSIVE A PLACARD," "POISON GAS PLACARD," and "POISON GAS—EMPTY PLACARD" affixed to a rail car must be placed on a square background measuring 14¼ inches on each side with a black border extending to 15½ inches on each side (illustrated in above chart). (See Sec. 172.510(a) and 172.527(a)).

IALS WARNING PLACARDS

OTHER PLACARDING REQUIREMENTS

MOTOR VEHICLES, RAIL CARS AND FREIGHT CONTAINERS

1. Placard motor vehicles and freight containers containing 1,000 pounds or more gross weight of hazardous materials classes listed in TABLE 2.
2. Placard any quantity of hazardous materials classes listed in TABLES 1 and 2 when offered for transportation by air or water.
3. Placard rail cars containing any quantity of hazardous materials classes listed in TABLE 2 except when less than 1,000 pounds gross weight of hazardous materials is transported in TOFC (Trailer on flat car) or COFC (Container on flat car) service.

TABLE 2

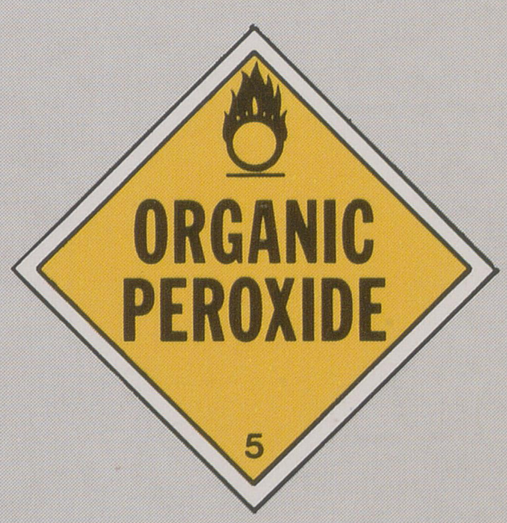
HAZARDOUS MATERIAL CLASSED OR DESCRIBED AS	PLACARDS
Class C explosives	FLAMMABLE.
Nonflammable gas	NONFLAMMABLE GAS.
Nonflammable gas (Chlorine)	CHLORINE.
Nonflammable gas (Fluorine)	POISON.
Nonflammable gas (Oxygen, pressurized liquid)	OXYGEN.
Flammable gas	FLAMMABLE GAS.
Combustible liquid	COMBUSTIBLE.
Flammable liquid	FLAMMABLE.
Flammable solid	FLAMMABLE SOLID.
Oxidizer	OXIDIZER.
Organic peroxide	ORGANIC PEROXIDE.
Poison B	POISON.
Corrosive material	CORROSIVE.
Irritating material	DANGEROUS.

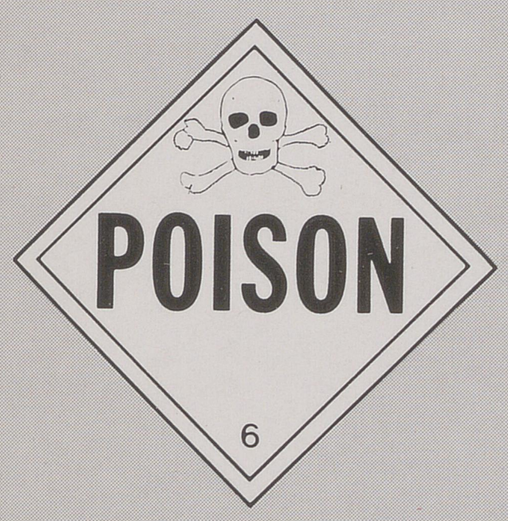


used for Class C Explosives labeled with an Explosive C label.

















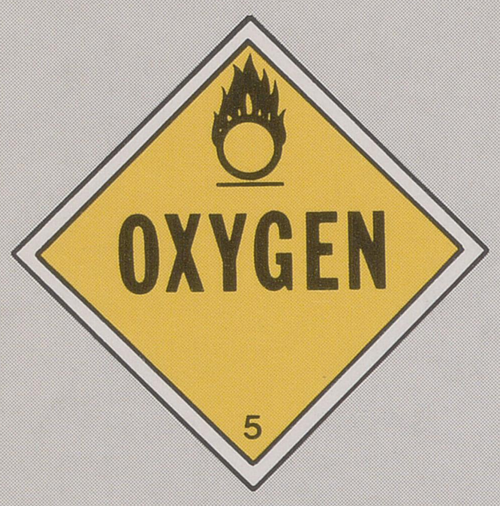
d for materials transported in packaging having a rated capacity of more than 110 gallons.



Other than by water, a FLAMMABLE placard may be displayed in place of a FLAMMABLE SOLID placard except when a DANGEROUS WHEN WET label is specified in Sec. 172.101.

DANGEROUS PLACARD

1. When a freight container, rail car or motor vehicle contains two or more classes of hazardous materials requiring different placards specified in TABLE 2, the DANGEROUS placard may be used in place of the separate placards specified for each class.
2. When 5,000 pounds or more of one class of hazardous material is loaded at one loading facility, the placard for that class in TABLE 2 must be applied.



OXYGEN placard required for pressurized liquid oxygen.

OXYGEN placard may also be used to identify liquefied oxygen contained in a manner that does not meet the definition of a compressed gas in Sec. 172.300.



CHLORINE placard required only for a packaging having a rated capacity of more than 110 gallons. Use the NON-FLAMMABLE GAS placard for packagings having a rated capacity of 110 gallons or less.

HIGHWAY SHIPMENTS



Above placard may be used in place of FLAMMABLE placard when gasoline is being transported (Sec. 172.542(c)).



Above placard may be used in place of COMBUSTIBLE placard when FUEL OIL that is not classed as a Flammable liquid is being transported (Sec. 172.544(c)).

RAIL SHIPMENTS



EMPTY placard. Each "empty" tank car must be placarded with an EMPTY placard that corresponds to the placard that was required for the material the tank car last contained unless the tank car last contained a Combustible liquid. This placard is required for the following hazardous materials.

Non-Flammable Gas	Flammable Solid
Oxygen	Flammable Solid W
Flammable Gas	Oxidizer
Chlorine	Organic Peroxide
Poison Gas	Poison
Flammable	Corrosive

FREIGHT CONTAINERS

FREIGHT CONTAINERS—640 CUBIC FEET OR MORE
(Placard each end and each side)

AIR OR WATER—Placard any quantity

HIGHWAY OR RAIL

1. Placard any quantity of hazardous material classes listed in TABLE 1 (Sec. 172.512(a)).
2. Placard 1,000 pounds or more (aggregate gross weight) of hazardous material classes in TABLE 2 (Sec. 172.512(c)).

NOTE: For placarding options for freight containers of less than 640 cubic feet, see Sec. 172.512(b).

CARGO TANKS AND PORTABLE TANKS

1. Cargo tanks containing any quantity of hazardous material must be placarded.
2. Portable tanks having a rated capacity of 1,000 gallons or more must be placarded.
3. Portable tanks having a rated capacity of less than 1,000 gallons need be placarded on only two opposite sides (Sec. 172.514(a)).
4. Cargo tanks and portable tanks must remain placarded when emptied unless reloaded with a material not subject to CFR, Title 49, Parts 100-199 or sufficiently cleaned and purged to remove any potential hazard. (Sec. 172.514(b)).
5. For Combustible liquids, a FLAMMABLE placard may be used on cargo tanks or portable tanks when transported by highway or water.

USE OF THIS CHART DOES NOT RELIEVE PERSONS INVOLVED FROM COMPLYING WITH THE DOT HAZARDOUS MATERIALS REGULATIONS AS PUBLISHED IN TITLE 49, CODE OF FEDERAL REGULATIONS, PARTS 100-199.

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